



352-372

189

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

APR 21 1995

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

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Product Registration Manager
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Wilmington, DE 19880-0038

SUBJECT: Vydate® L Insecticide/Nematicide
EPA Reg. No. 352-372
Vydate® C-LV Insecticide
EPA Reg. No. 352-532
Reduction of Crop Rotation Interval
from 6 Months to 4 Months
Your Submission Dated January 16, 1992

The Agency is responding to your applications (OPP Identifier Nos. 159753 and 159755, respectively) for an amendment to the above product registrations by reducing the crop rotation interval from six months to four months. The Agency has reviewed the submitted residue data (DU Pont Report No. AMR-1695-90) gathered from three field locations, a related storage stability study, and the draft labels and has reached the following conclusions:

165-1 Confined Rotational Crop Study (MRID 41697902) and Limited Field Rotational Crop Study (MRID 42178201)

The two studies, together, plus metabolism information from the 1985 Registration Standard, provide an adequate understanding of the qualitative nature of the residue in plants. The residues of concern are oxamyl and its oxime metabolite. Residues of oxamyl and its oxime metabolites, expressed as oxamyl equivalent, were detected (LOD = 0.02 ppm) in/on several commodities from the 30-day rotations but not in 120 day rotations in/on all crop commodities from treated test plots in CA and FL. The attached 8/10/94 HED Review (D. Miller to B. Lowery; CBRS Nos. 12016, 1191, 1192, and 1193) concluded that available field rotational trial data indicate that rotational crop tolerances are not required provided that: oxamyl labels specify a 4-month plantback interval; the total season application rate does not exceed 12 lbs ai/A; and the adequacy of the storage stability study for the oxime metabolite.

320 / 5410802
17 / 4/14/95

171-4(e) Storage Stability (MRID 43504901)

The storage stability data indicate that residues of the oxime metabolite are stable under frozen storage conditions for a period of at least 24 months in apples, celery, cottonseed, cucumbers, onions, oranges, peanuts, pineapples, potatoes, soybeans, spearmint, and tomatoes stored at nominal temperatures of -29 to -15 C. The Agency concludes that sufficient data have been provided to support any and all previous magnitude of the residue studies submitted by the registrant for the following crop groupings: (1) oilseeds or nuts; (2) leafy vegetables; (3) root crop vegetables; and (4) fruit or fruiting vegetables (NOTE: oxamyl is not registered for use on the fifth crop group, grains). Refer to additional details in the attached 4/11/95 HED Review (D. Miller to R. Richards; CBRS No. 15005)

The Agency's August 10, 1994 review further states that approval is contingent upon the total season application rate for oxamyl not exceeding 12 lbs ai/A. Your final label must state this restriction for every crop unless the Agency has imposed a more stringent application rate limitation for a particular crop (e.g. apples). Furthermore, your final label must display the Worker Protection Standard language as approved in the Agency's January 14, 1994 letter.

In summary, based on the reviews of the above studies, the amendments referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are acceptable.

Shipment of your product constitutes acceptance of these conditions. A copy of the submitted label, approved with comments, is enclosed. If you have any questions, please contact Teung F. Chin of my Team, at (703) 305-5412.

Sincerely yours,

DHE

Dennis H. Edwards, Jr.
Product Manager 19
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosures
351-372.DNS

HIGHLIGHTED COPY 389

**RESTRICTED
USE PESTICIDE**

Due to Acute Toxicity And Toxicity to Birds and Mammals.
For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.



VYDATE® L

INSECTICIDE \ NEMATOCIDE
WATER SOLUBLE LIQUID

DRAFT

REGISTRATION CODE 0991-000

PACKAGE SIZE
4 - 1 GALLON JUGS/CARTON
5 - GALLONS JUGS

1 GALLON CONTAINS 2 LBS. ACTIVE INGREDIENT PER GALLON.

ACTIVE INGREDIENT	BY WEIGHT
Oxamyl [Methyl N-(2-dimethyl-N-[(methoxycarbonyloxy)-1-thioxamimidate]	24%
INERT INGREDIENTS	76%
EPA Reg. No. 352-372	TOTAL 100%
	U.S. Pat. 3,658,870

KEEP OUT OF REACH OF CHILDREN

DANGER



POISON

PELIGRO PRECAUCION AL USUARIO Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled: Remove from exposure and have patient lie down and keep quiet. If patient is not breathing, start artificial respiration immediately. Never give anything by mouth to an unconscious person.

In case of contact, wash skin with plenty of soap and water; for eyes, flush with water for 15 minutes and get medical attention; remove and wash contaminated clothing before re-use.

ATROPINE IS AN ANTIDOTE -- SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING

If warning symptoms appear (see WARNING SYMPTOMS), get medical attention.

For medical emergencies involving this product, call toll free 1-800-441-3637.

See PRECAUTIONARY STATEMENTS

ACCEPTED
with COMMENTS
in EPA Letter Dated

APR 21 1995

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
352-372

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
(continued on next page)

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER



POISON

CONTAINS METHANOL.

MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. MAY BE FATAL IF ABSORBED THROUGH SKIN OR INHALED.

Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. When mixing spray, loading, applying, or otherwise handling, wear protective clothing, goggles, and a mask or respirator jointly approved by the Mine Safety and Health Administration (formerly the U. S. Bureau of Mines) and by the National Institute for Occupational Safety and Health. Wear clean clothes daily. Wash thoroughly after handling and before eating or smoking. Pilot should not assist in the mixing and loading operation.

Do not apply this product in such a manner as to directly or through drift expose workers, other persons or animals. The area being treated must be vacated by unprotected persons.

WARNING SYMPTOMS—Oxamyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors.

NOTE TO PHYSICIAN

TREATMENT—Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to "Vydate" L alone. However, for exposure to combinations of "Vydate" L and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

For medical emergencies involving this product, call toll free 1-800-441-3637.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic organisms (fish and invertebrates) and extremely toxic to birds. Cover or disc spill areas. Birds in treated areas may be killed. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow to drift to blooming crops or weeds if bees are visiting the treatment area.

GROUND WATER ADVISORY—Residues of "Vydate" L can seep or leach through soil and can contaminate ground water which may be used for drinking. Users are advised not to apply "Vydate" L where the water table is close to the surface and where soils are very permeable, i.e., well-drained soils such as loamy sands. Local agricultural Agencies can provide information on the soil type in your area and the location of the ground water.

PHYSICAL AND CHEMICAL HAZARDS

Flammable. Keep away from heat, sparks, and open flame. Keep container closed. Use with adequate ventilation.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Du Pont "Vydate" L Insecticide/Nematicide should be used only in accordance with recommendations on this label or in separate Du Pont recommendations available through local dealers.

Du Pont will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by Du Pont. User assumes all risks associated with such non-recommended use.

"Vydate" L is a water soluble liquid to be diluted with water for application. Use only in commercial and farm plantings; do not use in home plantings. Do not plant crops other than those with registered "Vydate" L uses within 4 months after the last application.

Do not use in Suffolk and Nassau Counties, Long Island, New York.

Do not enter treated areas for 48 hours after application unless protective clothing is worn. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written (or oral) warnings must include the following information: "DANGER-POISON. Area treated with 'Vydate' L on (date of application). Do not enter treated areas for 48 hours after application unless protective clothing is worn. If warning symptoms appear, refer to Statement of Practical Treatment on front panel of 'Vydate' L label and seek medical attention at once."

If mixing or loading the concentrate with a closed system, a long-sleeve shirt and long-legged pants may be substituted for the protective suit and respirator. Appropriate protective clothing and equipment must still be worn during application, equipment repair, equipment cleaning, early reentry, and disposal.

WEAR THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING HANDLING, MIXING, LOADING, APPLICATION, EQUIPMENT AND CLEANING, DURING EARLY REENTRY TO TREATED AREAS, AND DURING DISPOSAL OF THE PESTICIDE.

Wear a protective suit of one or two pieces that covers all parts of the body except the head, hands, and feet. Wear chemical-resistant gloves, chemical-resistant apron, and chemical-resistant shoes, shoe coverings or boots. Wear goggles or face shield and a pesticide respirator approved by the National Institute for Occupational Safety and Health (NIOSH) and/or the Mine Safety Health Enforcement Administration (MSHA). A chemical-resistant hat or hood must be worn if the application is likely to result in overhead exposure, such as during air blast applications.

During application from a tractor with a completely enclosed cab or aerially with an enclosed cockpit, a long sleeve shirt and long-legged pants may be worn in place of the above protective clothing. Chemical-resistant gloves and an approved respirator must be worn when exiting. Note that this clothing is inadequate to protect you during equipment repair, equipment cleaning, reentry, or during pesticide disposal.

IMPORTANT! Always wash hands, face and arms with soap and water before eating, smoking, drinking or toileting.

AFTER WORK: Wash gloves with soap and water before removing. Take off all clothing and shoes. Shower using soap and water. Wear only clean clothes. Do not use contaminated clothing. Wash protective clothing and equipment with soap and water after each use; personal and protective clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with oxamyl must be destroyed according to state and local regulations.

HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.

Respirators should be cleaned and cartridges replaced according to instructions included with the respirator. Replace gloves frequently.

DURING AERIAL APPLICATION, HUMAN FLAGGERS MUST BE IN A TOTALLY ENCLOSED VEHICLE.

Spray Preparation—Fill spray tank 1/4 to 1/2 full of water. Add "Vydate" L directly to tank. Mix thoroughly while adding remaining water. No further agitation is necessary. Spray mix should not be stored overnight in spray tank.

Chemigation—Refer to supplemental labeling entitled, "Vydate" L Use in Chemigation Systems" for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

FRUITS

APPLES

SPOTTED TENTIFORM LEAFMINER

Apply 2 to 4 pts. Vydate L per acre (1-2 pts/100 gal. dilute, not to exceed 4 pts/acre) as follows:

For control of 1st Brood Leafminer: Make a single application at 1/2" green stage to early pink stage of bud development. Do not apply Vydate L after the blossom clusters have separated.

For control of 2nd Brood Leafminer: Make a single application when there are an average of two or more larvae per leaf in the sap-feeding stage. For best results, the application should be made before the larvae enter into the tissue-feeding stage. Make a second application, if needed, at 7 to 14 days after the first application.

EUROPEAN RED MITE AND TWOSPOTTED SPIDER MITE

Mites — Apply 2 to 4 pts. Vydate L per acre (1-2 pts/100 gal. dilute, not to exceed 4 pts/acre) when mite populations reach 2 to 4 mites/leaf and repeat at 7 to 14 day intervals as needed.

WHITE APPLE LEAFHOPPER

Apply 2 to 4 pts. Vydate L per acre (1-2 pts/100 gals. dilute, not to exceed 4 pts/acre) and repeat at 10 to 14 day intervals as needed.

NOTE: APPLY VYDATE L IN SUFFICIENT WATER TO OBTAIN THOROUGH COVERAGE BUT NOT IN EXCESS OF 400 GALS PER ACRE.

DO NOT APPLY AT BLOOM OR WITHIN 30 DAYS AFTER BLOOM, OR FRUIT THINNING MAY OCCUR.

DO NOT APPLY MORE THAN 8 PTS. OF VYDATE L PER ACRE PER GROWING SEASON.

DO NOT APPLY TO APPLES WITHIN 14 DAYS OF HARVEST

DO NOT GRAZE LIVESTOCK IN TREATED ORCHARDS

CITRUS

CITRUS RUST MITE

Apply 1/4 to 1 pt. "Vydate" L per 100 gals. water. Spray to run-off using up to 400 gals. of water per acre. Do not apply more than 2 qts. of product per acre.

Begin applications as soon as significant infestations are found and continue on an as-needed basis. Under light to moderate pressure, apply on 4- to 6-week intervals or as needed; where moderate to heavy pressure, apply every 2 to 3 weeks as long as the infestation continues.

DO NOT MAKE MORE THAN 6 APPLICATIONS PER YEAR

CITRUS THRIPS

Apply 1 to 2 qts. of "Vydate" L per acre in sufficient water (100 to 500 gals per acre) to give good coverage. Apply in the early spring before bloom when the new growth is about 3 to 4 inches long. Make additional applications as needed. Applications at petal fall may be critical to prevent fruit scarring. Applications are also recommended during mid-summer to protect new growth on young trees.

Note: Do not apply to citrus within 7 days of harvest. Do not graze livestock in treated orchards.

PEARS

Use not registered in California

EUROPEAN RED MITE, McDANIEL MITE, TWOSPOTTED SPIDER MITE, PEAR RUST MITE

Apply 3 to 4 qts. "Vydate" L per acre in 100 to 600 gals. of water by ground. For best results use a dilute application.

Make application when mites first appear and repeat as needed to maintain control. Use lower rate on light infestations and higher rate on heavy infestations.

Note: Do not apply at bloom or within 30 days after full bloom, or fruit thinning may occur. Do not apply within 14 days of harvest. This product has been tested on Bartlett and d'Anjou varieties of pears without russetting. Its use on other varieties should be on a small scale until the possibility of russetting has been evaluated. Do not graze livestock in treated orchards.

PINEAPPLE

Use not registered in California

RENIFORM AND ROOT KNOT NEMATODES

Preplant or Planting Treatment--Apply 2 gals. "Vydate" L per acre broadcast within 1 week prior to planting and incorporate 4 to 6 inches into the soil. Alternatively, apply 1 to 2 gals. "Vydate" L per acre broadcast, or apply 1/2 to 2 gal. per acre directly to the soil via drip irrigation injection, within 1 week after planting

Subsequent Treatments--Apply 1/2 to 1 gal. "Vydate" L per acre by ground equipment as a foliar spray at 2 to 4 week intervals in sufficient water to obtain thorough coverage. Begin applications when pineapple roots begin to grow following planting. Alternatively, apply 1/4 to 1 gal. "Vydate" L per acre directly to the soil via drip irrigation injection at 2, 4, or 8 week intervals. For best results, subsequent applications should be made after preplant or planting application of "Vydate" L or a standard fumigant. Best results occur under optimum soil moisture conditions.

Note: Do not apply more than 6 gals. "Vydate" L per acre per year. Do not harvest or graze treated fields within 30 days of application.

VEGETABLES

CARROTS

Use not registered in California

ROOT KNOT (EXCEPT JAVANESE), LESION, STING, SPIRAL AND STUNT NEMATODES

Preplant Treatment -- Apply 2 to 4 gals. of "Vydate" L per acre in a minimum of 20 gals. water per acre as a broadcast treatment of the soil. Apply within one week of planting. Thoroughly incorporate to a depth of 4 to 6 inches in the soil.

In-Furrow Treatment -- Apply 1 to 2 gals. of "Vydate" L per acre in a minimum of 20 gals. water per acre in the seed furrow during the planting operation.

CELERY (Florida)

SERPENTINE LEAFMINERS (EXCEPT LIRIOMYZA TRIFOLI)

Apply 2 to 4 pts. "Vydate" L per acre as a foliar spray using sufficient water (minimum 100 gals.) to obtain uniform coverage. Treat when insect first appears and repeat at 5- to 7-day intervals or as needed. Use the low rates for light infestations, the intermediate rates for heavier infestations, and the highest rates for severe infestations.

Note: Do not apply within 14 days of harvest.

CUCUMBER, CANTALOUPE, HONEYDEW MELON, WATERMELON, SQUASH, PUMPKIN

ROOT KNOT (EXCEPT JAVANESE), LESION, STING AND STUNT NEMATODES

Preplant and Planting Treatment -- Apply 1 to 2 gals. "Vydate" L per acre (broadcast); for band treatment, use proportionately less. Following application and before planting, incorporate "Vydate" L 2 to 4 inches into the soil. Use the low rate for light infestations.

Foliar Treatment -- Apply 2 to 4 pts. "Vydate" L per acre in sufficient water to obtain uniform coverage of foliage. Make the first application 2 to 4 weeks after planting and repeat 2 to 3 weeks later. Use the lower rate on light infestations. The best results follow usage of "Vydate" L as a soil treatment as described above.

LEAFMINERS (Liriomyza spp.)

Apply 2 to 4 pts. "Vydate" L per acre in sufficient water to obtain uniform coverage of foliage. Make applications when insects first appear and repeat weekly or as needed. Apply the low rate for light infestations of insects and the high rate for severe infestations.

Where leafminer infestations occur annually, initiate treatment schedule 2 to 4 weeks after planting and repeat weekly or as needed.

Note: Do not apply within 1 day of harvest.

EGGPLANT

APHIDS, COLORADO POTATO BEETLE, LEAFMINERS, AND MITES

Apply 1 to 2 qts. "Vydate" L per acre by ground equipment as a foliar spray when insects first appear. Repeat at 1 to 3 week intervals as needed.

NEMATODES (EXCEPT IN CALIFORNIA)

Apply 1 gal. "Vydate" L per acre as a band treatment 2 to 3 weeks after transplanting and again 4 weeks later. Two to four weeks following these soil treatments, make 2 foliar applications of 2 qts. per acre by ground equipment at 1 to 2 week intervals.

Note: Do not apply within 1 day of harvest when using only foliar applications or within 7 days of harvest using soil with foliar applications

PEPPER (BELL)

Use not registered in California

ROOT KNOT (EXCEPT JAVANESE), STING, RING, STUBBY ROOT, AND STUNT NEMATODES --

Transplant Water Treatment: Supplemental Foliar Treatments -- Apply 2 pts "Vydate" L per acre. Add the "Vydate" L to the transplant water, and use a minimum of 200 gals. per acre. Under very high nematode populations, begin with a transplant water treatment and supplement with foliar sprays. For the best results, make the first foliar application 14 days after transplanting and continue in accordance with the foliar treatment described below.

Note: Do not apply as a transplant water treatment during periods of slow plant growth such as when temperatures fall below 45°F, or crop injury may result.

GREEN PEACH APHID, VEGETABLE LEAFMINER, AND PEPPER WEEVIL --

Foliar Treatments -- Apply 2 to 4 pts. "Vydate" L per acre in sufficient water (minimum 100 gals.) to obtain uniform coverage. Make applications when insects first appear and repeat at 1- to 2-week intervals or as needed. Apply low rates for light infestations of insects. Use highest recommended rates and shorter intervals for controlling severe infestations

Note: Do not apply within 7 days of harvest

POTATOES -- (Except in California)

ROOT KNOT (EXCEPT JAVANESE) STING, LESION AND RING NEMATODES (EXCEPT WEST OF THE ROCKIES); APHIDS, COLORADO POTATO BEETLE, FLEA BEETLES, POTATO LEAFHOPPER, AND TARNISHED PLANT BUG --

Preplant Treatment -- For control of nematodes and early season control of the above insects, apply either one of the following:

In-Furrow Treatment -- Apply 1 to 2 gals. of "Vydate" L per acre in a minimum of 20 gals. of water per acre in the seed furrow during the planting operation.

Broadcast Treatment -- Apply 2 to 4 gals. of "Vydate" L per acre in a minimum of 20 gals. of water per acre as a band or broadcast treatment of the soil within one week of planting. Thoroughly incorporate to a depth of 4 to 6 inches in the soil.

Scout fields to determine when early season control diminishes and use registered foliar insecticides including "Vydate" L to retain control.

Foliar Treatments -- For control of the above pests, apply 2 to 4 pts. "Vydate" L per acre, except in the Midwest and Northeast where 1 to 4 pts. "Vydate" L per acre may be used for Colorado potato beetle. Use sufficient water (minimum 4 gals. per acre by air) to obtain uniform coverage. Make applications when pests first appear and repeat at 5- to 7-day intervals or as needed. Apply the low rates for light infestations. Use the higher rates for severe infestations.

Note: Do not apply within 7 days of harvest.

SWEET POTATOES--Use not registered in California

ROOT KNOT (EXCEPT JAVANESE) AND SPIRAL NEMATODES --

Preplant Treatment -- Apply 2 to 3 gals. of "Vydate" L per acre in a minimum of 20 gals. of water per acre as a broadcast treatment of the soil; for band treatment, use proportionately less. Apply within one week of planting. Thoroughly incorporate to a depth of 4 to 6 inches in the soil.

In-Furrow Treatment -- As an alternate to the above, apply 1 to 2 gals. of "Vydate" L per acre in a minimum of 200 gals. of water per acre in the transplant water during the planting of slips.

Note: Do not apply as a transplant water treatment during periods of slow plant growth such as when temperatures fall below 45°F, or crop injury may result.

TOMATOES

SERPENTINE LEAFMINERS (EXCEPT LIRIOMYZA TRIFOLI)

Apply 2 to 4 pts. "Vydate" L per acre in sufficient water (minimum 100 gals.) to obtain uniform coverage. Make application when insect first appears and repeat at 5- to 7-day intervals or as needed.

Apply the low rates for light infestations of insects. Use intermediate rates for heavier infestations of insects. Use the highest recommended rates for controlling severe infestation.

Note: Do not apply more than 6 gals. per acre per season. Do not apply within 1 day of harvest.

FIELD CROPS

COTTON

COTTON LEAFPERFORATOR

Apply 1 to 4 pts. "Vydate" L per acre in sufficient water to obtain thorough coverage. Make initial applications when damaging populations begin to build, and continue on a 6 to 8 day schedule for up to 4 applications.

BOLL WEEVIL, COTTON FLEAHOPPER, AND TARNISHED PLANT BUG
Apply 1/2 to 1 pt. "Vydate" L per acre in sufficient water to obtain thorough coverage. Begin applications when damaging populations appear and repeat as needed to maintain control.

Note: Do not apply within 21 days of harvest. Do not graze or feed treated cotton to livestock.

PEANUTS

Use not registered in California

ROOT KNOT (EXCEPT JAVANESE), STING, RING, AND LESION NEMATODES, AND THRIPS--

Soil Treatment--Apply 2 to 6 qts. of "Vydate" L in a 7" to 12" band using a minimum of 10 gals. of water per acre. Thoroughly incorporate with a rotary tiller to a depth of 3" to 5" immediately after application. Use the higher rate and wider band for severe infestations. Peanuts should be planted within 24 hours after application. Alternatively, "Vydate" L may be applied in a 7" band immediately behind planting. Use 2 to 6 qts. in a minimum of 10 gals. water per acre.

Foliar Treatment--Foliar treatment is to be used only following soil fumigation, or following preplant or at planting soil application of "Vydate" L or other contact nematicides. Make 2 foliar applications of "Vydate" L at 2 to 4 pts. per acre in 20 to 40 gals. of water. Apply first spray 3 weeks after emergence and the second spray 6 weeks after emergence. For best results, concentrate the spray on the row using 3 cone-type nozzles positioned over and to each side of the row. Thorough spray coverage is important.

SOYBEANS

Use not registered in California

ROOT KNOT (EXCEPT JAVANESE), LESION, RING, STUNT, LANCE, AND CYST NEMATODES--

In-furrow Band Treatment--Apply 2 to 4 pts. "Vydate" L in 10 to 20 gals. of water per acre (based on 36" row spacing) at planting. Spray over open drill row at the juncture where the seed is covered with soil to assure mixing of "Vydate" L with the soil around the seed.

Incorporated Band Treatment--Apply 2 to 4 pts. "Vydate" L in 10 to 20 gals. water per acre to a 7" to 10" band in the drill area (based on 36" row spacing) as a preplant treatment (up to 1 week before planting) or as a treatment at planting. Incorporate the "Vydate" L 2" to 4" into the soil in the seed zone.

Incorporated Broadcast Treatment--Apply 1 to 2 gals. of "Vydate" L in 10 to 20 gals. of water per acre as a preplant treatment (up to 1 week before planting) or as a treatment at planting. Incorporate the "Vydate" L 2" to 4" into the soil in the seed zone.

Note: Do not cut for hay or feed treated forage to livestock. Do not apply "Vydate" L to areas with severe infestations of nematodes such as where injury to plants is manifested by severe stunting and chlorosis, as "Vydate" L will not control severe infestations.

Tobacco

ROOT KNOT (EXCEPT JAVANESE) AND LESION NEMATODES AND FLEA BEETLES

Soil Treatment—“Vydate” L may be applied to the soil as a band treatment or it may be broadcast, disced, and bedded. For best results, the tobacco should be transplanted within 24 hours after soil treatment.

Row Treatment—Apply 1 gal. of “Vydate” L in an 18- to 24-inch band in a minimum of 20 gals. of water per acre of tobacco (12,000 row feet). Thoroughly incorporate with a rotary tiller to a depth of 4 to 6 inches.

Broadcast and Bed Treatment—Apply a broadcast spray of 1 gal. per acre in a minimum of 40 gals. of water. Incorporate thoroughly to a depth of 4 to 6 inches and bed the field in such a manner that only treated soil is used to form the beds.

Note: Do not apply more than 1 gal. “Vydate” L per acre per growing season.

ORNAMENTALS, NURSERY STOCK, NON-BEARING FRUIT TREES

For use only in commercial greenhouses and nurseries. Do not apply this product to interior landscapes or potted plants in or around domestic areas such as homes, shopping malls, or commercial buildings.

“Vydate” L is recommended for use on the following ornamentals, nursery stock and non-bearing fruit trees for control of insects, mites, and nematodes:

Apple*	Dieffenbachia Picta	Pear*
Azalea	Dracaena	Peony
Bird's-Nest Fern	Gardenia	Philodendron
Boxwood	Gladiolus	Rose
Cherry*	Hoya	Sansevieria
Chrysanthemum	Leatherleaf Fern	Snapdragon
Citrus*	Maranta	Strawberry
Croton	Peach*	(Nurseries)* **

* Non-bearing trees and strawberries that will not bear fruit within 12 months after application.

** Note: Certain varieties of strawberries are sensitive to “Vydate” L exhibiting severe phytotoxic symptoms. Known sensitive varieties that should not be treated with “Vydate” L include Bounty, Canoga (NY 1362), Cavalier, Darrow, Dunlop, Earldawn, Earliglow, Empire, Holiday, Marlate, Midland, Midway, Mic Mac, NY 1409, Ogallala, Redglow, Redstar, Sequoia, Stark Red, Sunrise, and Viestar. However, other varieties may also be sensitive. Therefore, “Vydate” L should be used initially only on a small scale to determine crop sensitivity prior to large scale field application.

See separate Du Pont literature for additional plants

INSECTS AND MITES including aphids, fungus fly, fungus gnats, Japanese beetle, leafhoppers, leafminers, mealybugs, royal palm bug, scales, thrips, white fly, and mites:

Foliar Treatment—Mix 2 to 4 pts. “Vydate” L per 100 gals. and apply up to 200 gals. of this mixture per acre or apply 4 to 8 pts. “Vydate” L per acre in a maximum of 600 gals. water per acre. For small areas, mix 3 to 6 tablespoons “Vydate” L per 5 to 14 gals. water and apply to 1,000 sq. ft. Apply as needed to maintain control.

NEMATODES including root knot (except Javanese), sting, lesion, and burrowing nematodes:

“Vydate” L may be used as a pretransplant soil treatment, as a drench or as a root, corm, or bulb dip. It may also be used as a foliar treatment alone or as a supplement to the above “Vydate” L or other nematicide treatments. When transplanting, plants should be set into soil within 24 hours after application.

Preplant Soil Incorporation Treatment—Apply 3 to 4 gals. “Vydate” L in a minimum of 20 gals. of water per acre. Thoroughly incorporate with a rotary tiller to a depth of 4 to 8 inches immediately after application. If applied in a band, use proportionately less material.

Soil Mix Treatment—Mix 2-3/4 fl. ozs. of “Vydate” L in 10 gals. of water. Spray 2-1/2 to 3-1/3 gals. of the dilute mix on to 1 cubic yard of soil while tumbling in a soil mixer (use 1 to 1-1/3 pts. for 1 bushel of soil).

Foliar Treatment—As a foliar treatment, mix 2 to 4 pts. “Vydate” L per 100 gals. of water and apply as a dilute spray, not to exceed 8 pts. per acre. Apply on a 2- to 3-week schedule for 4 applications. Apply first spray at first full leaf or when plant is in active growth phase. Do not apply to plants under water stress or to plants not actively growing. Include a spreader sticker.

Liquid Drench—Mix 1 pt. of “Vydate” L in 100 gals. of water (1-1/2 tablespoons/5 gals.). Apply drenches at a rate of 4 to 8 oz. per 6-inch pot or 2 to 4 oz. per 4-inch pot.

Root, Corm, or Bulb Dip—Mix 2 to 4 pts. of “Vydate” L in 100 gals. of water (3 to 6 tablespoons/5 gals.). Place plant material in solution for 1 to 30 minutes. Use the higher rate and longer soaking time for more severe nematode infestation.

Note: Do not treat apple, cherry, peach, or pear planting stock by root dip.

Note: Use only on commercial plantings; do not use on home plantings. Since varieties of ornamentals are numerous, continually changing, and may respond differently to “Vydate” L, test “Vydate” L on a small scale before proceeding to large-scale application. Varietal response may also vary if “Vydate” L is mixed with other products.

STORAGE AND DISPOSAL

STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE TO BUYER—Purchase of this material does not convey any rights under patents of countries outside of the United States.

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NOTICE OF WARRANTY

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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